

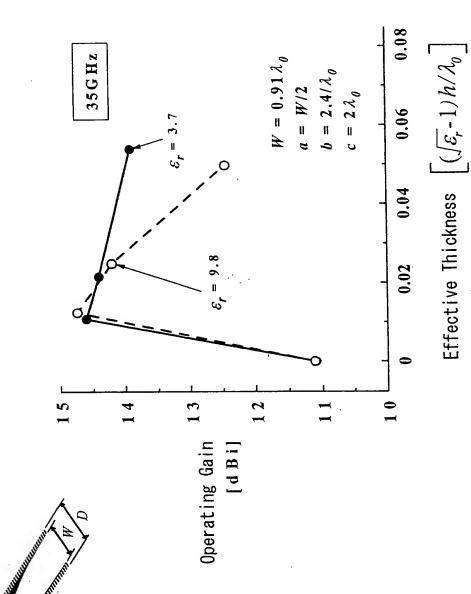
$$\varepsilon_{r} = 3.7$$

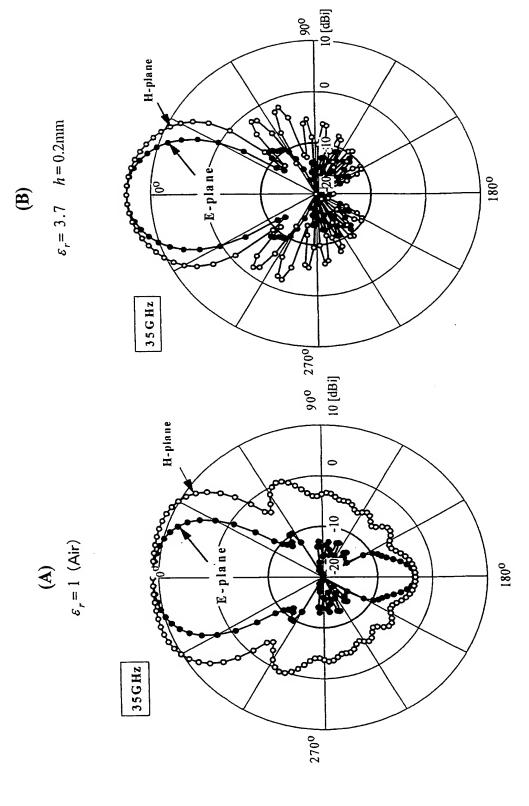
 $\varepsilon_{r} = 9.8$

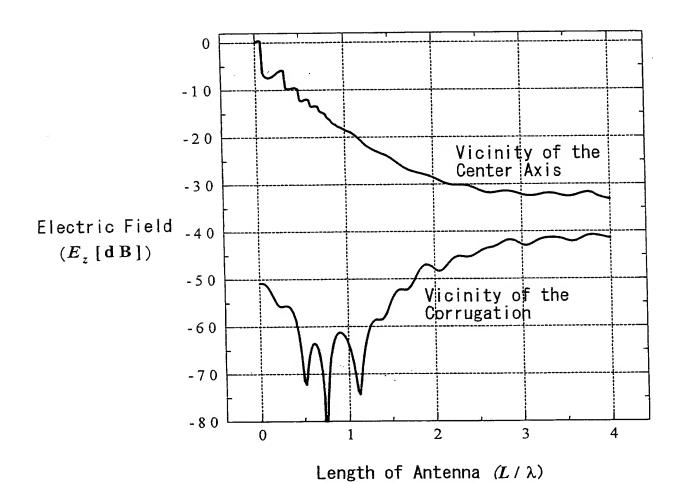
$$e_r = 5.7$$

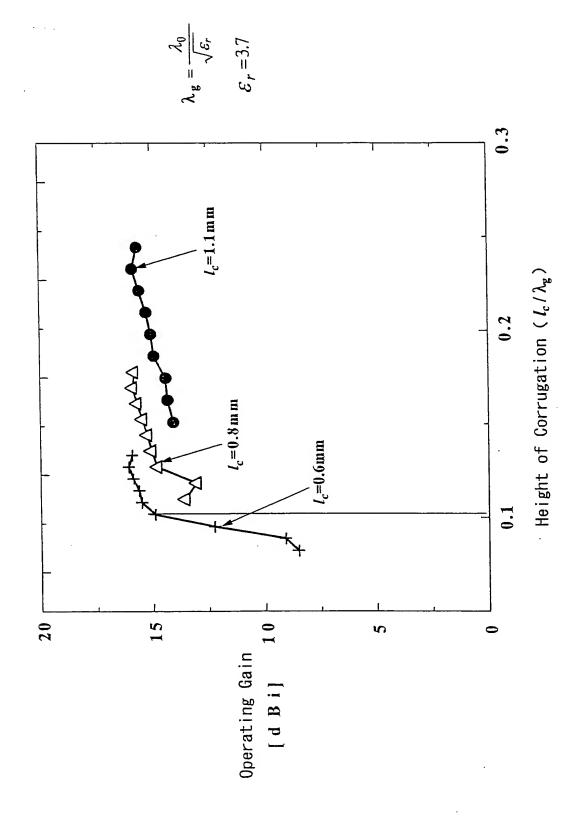
 $h = 0.1, 0.2, 0.5 \text{mm}$

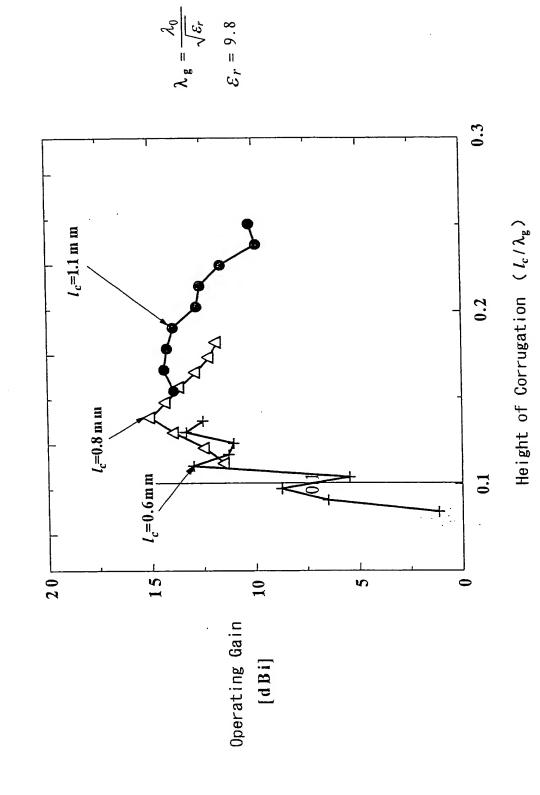
$$h = 0.05, 0.1, 0.2$$
mm

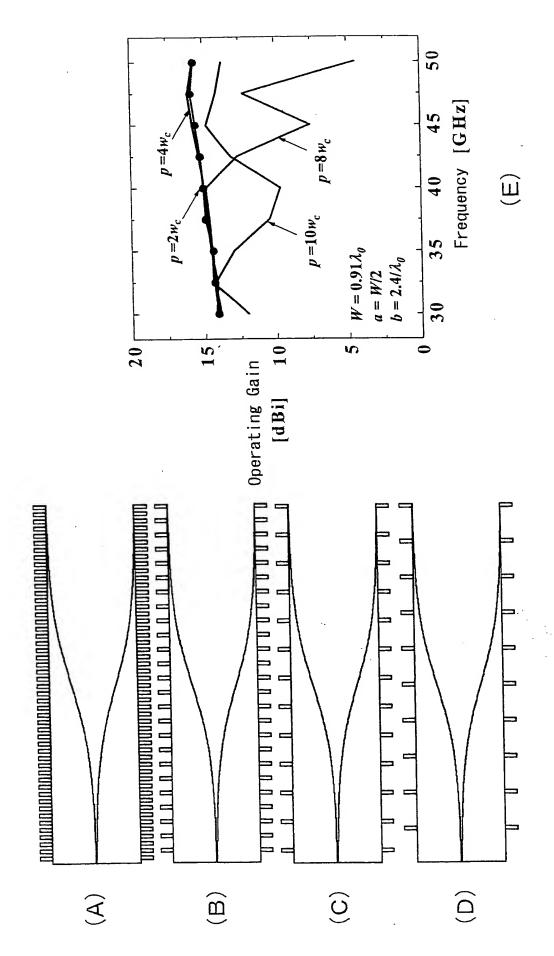


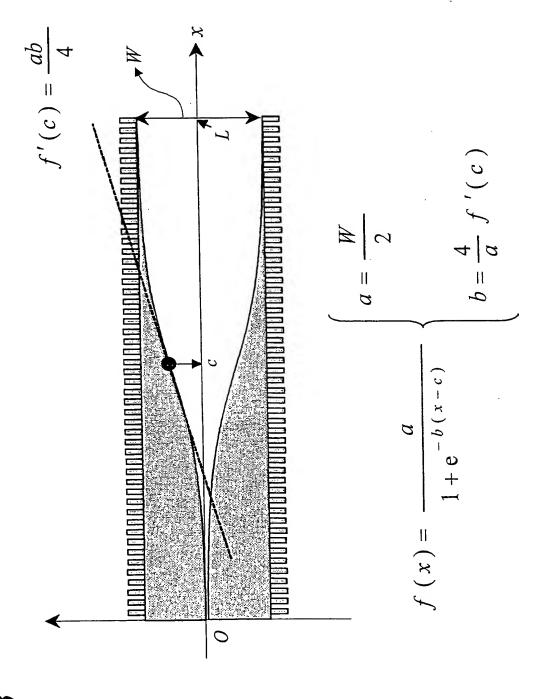


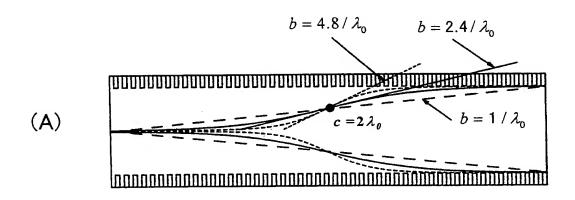


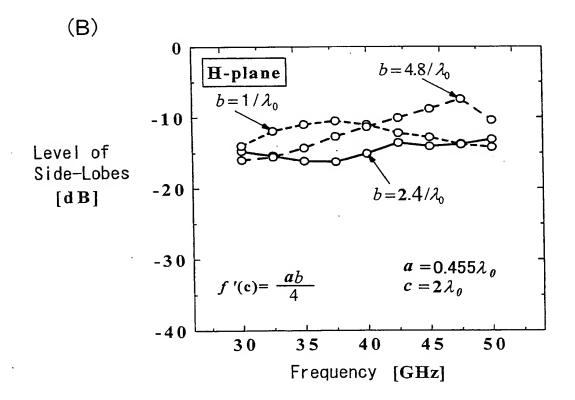


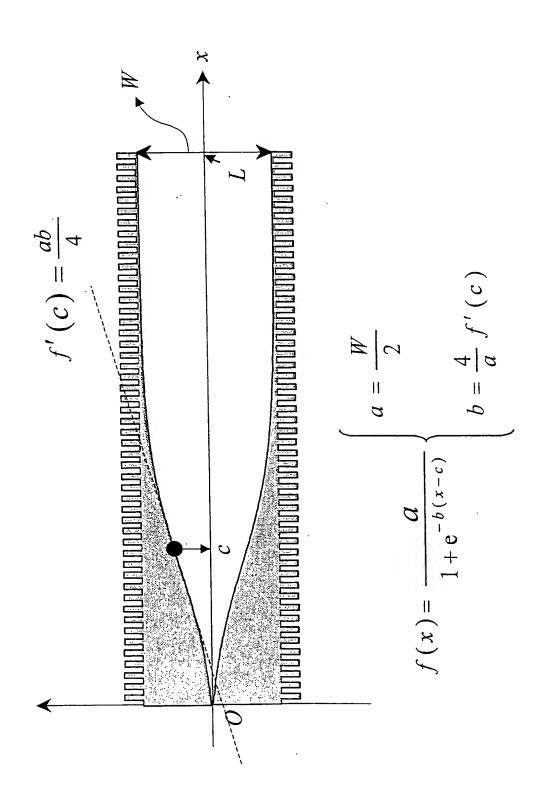


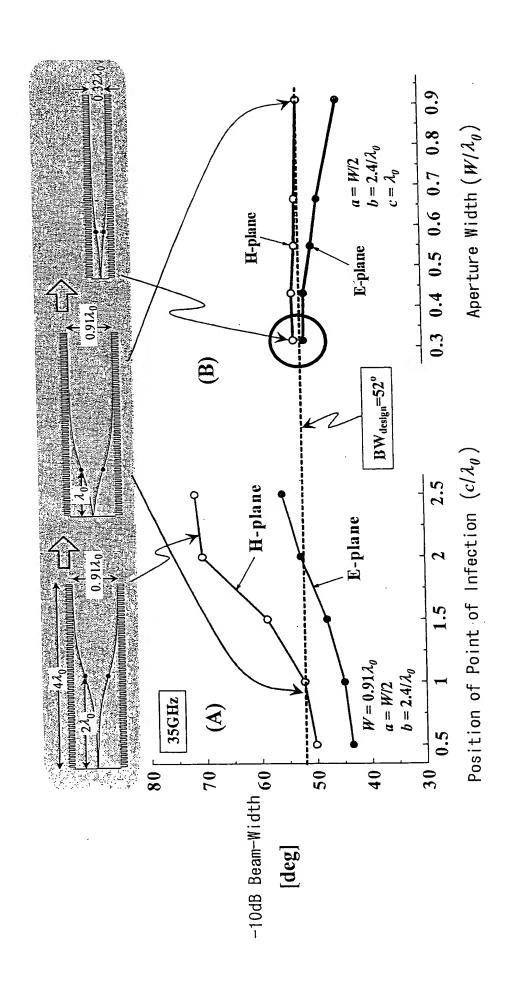


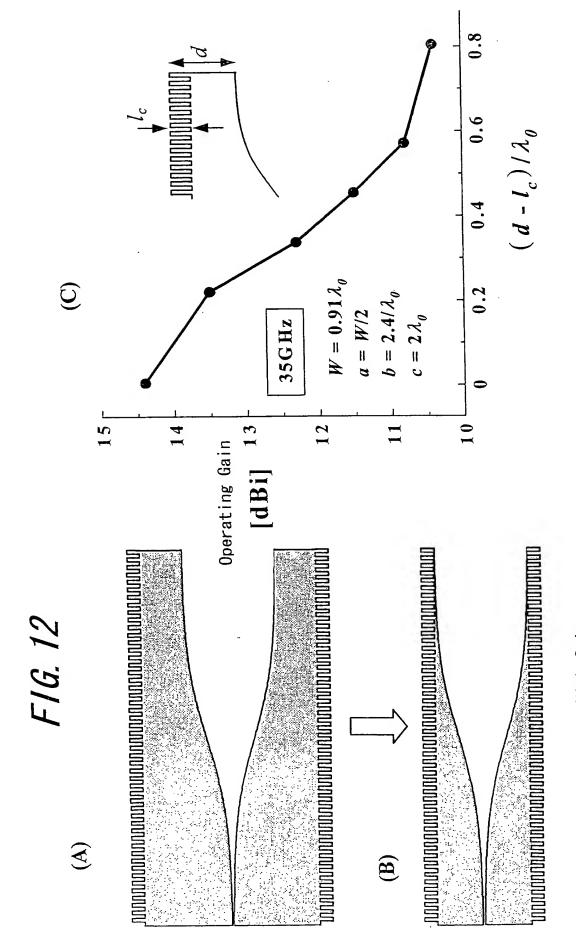




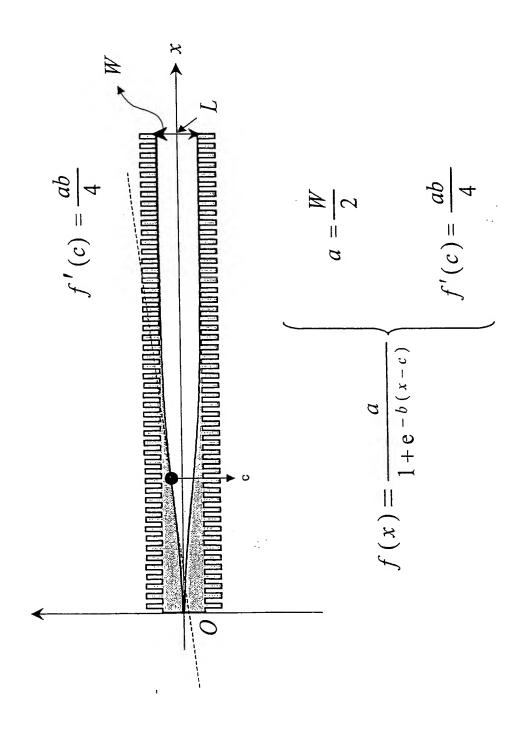


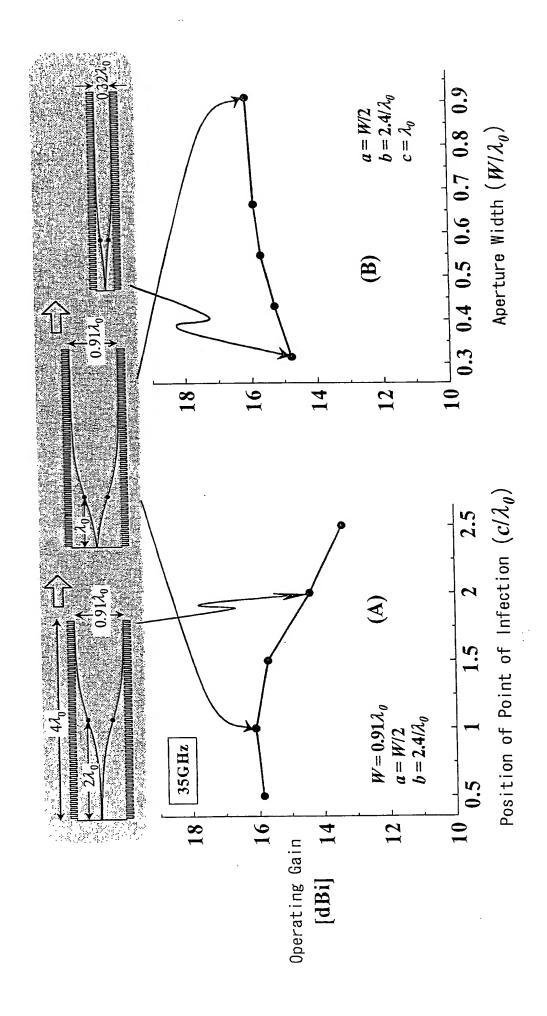


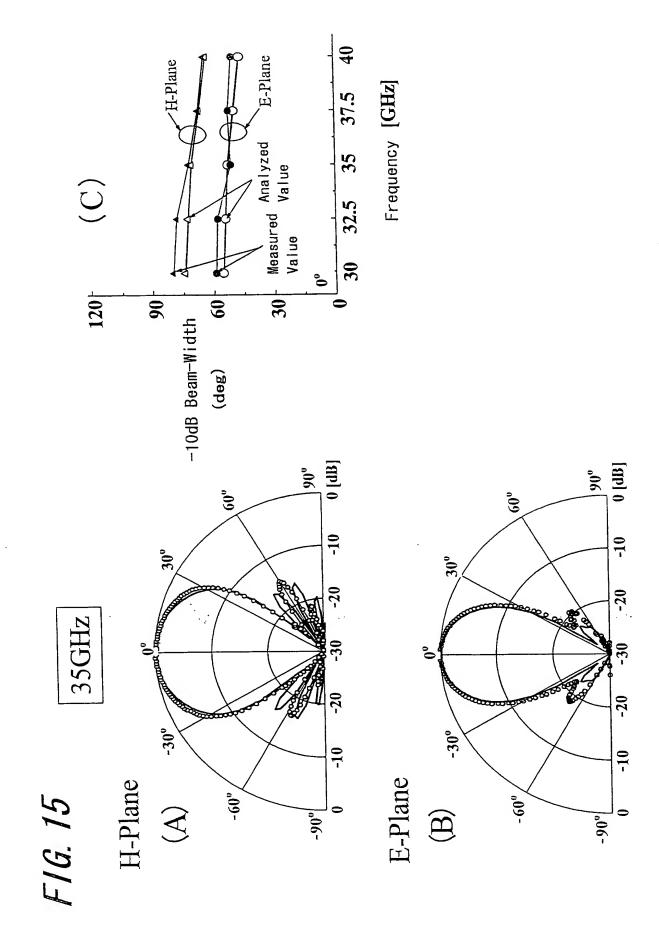


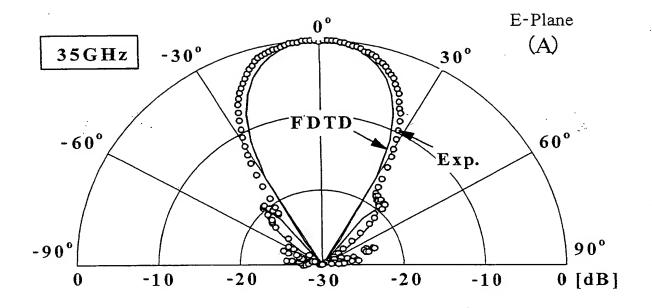


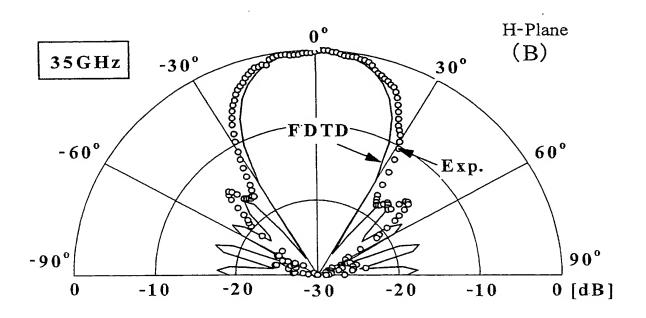
Condition That Gives High Gain $d = l_{\mathcal{C}}$

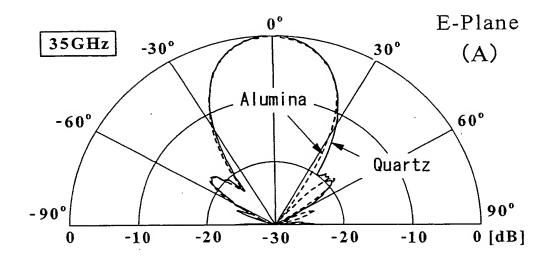


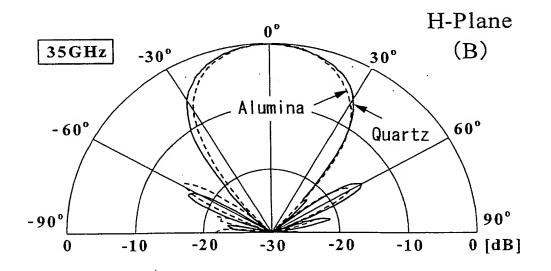


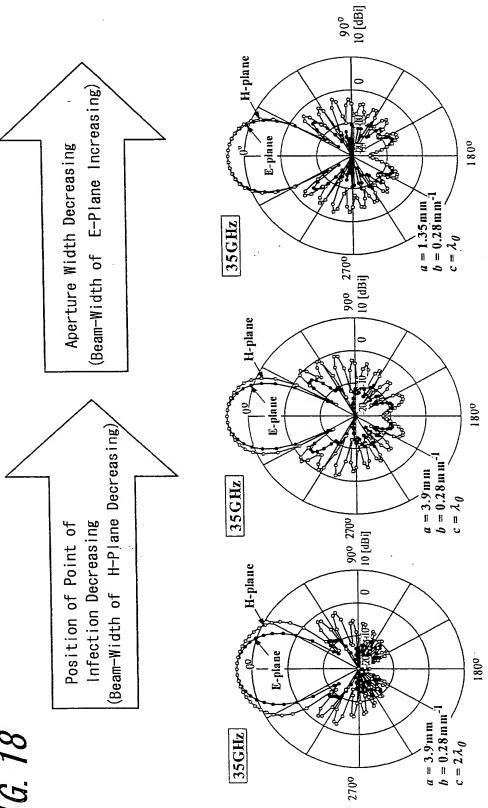












-16.8 dB -20.2 dB Side-Lobes Level of E-Plane Side-Lobes Level of H-Plane Operating Gain 14.8 dBi

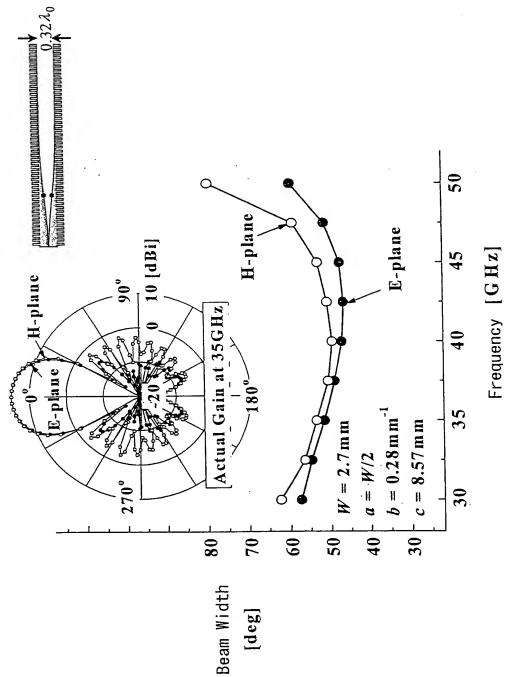
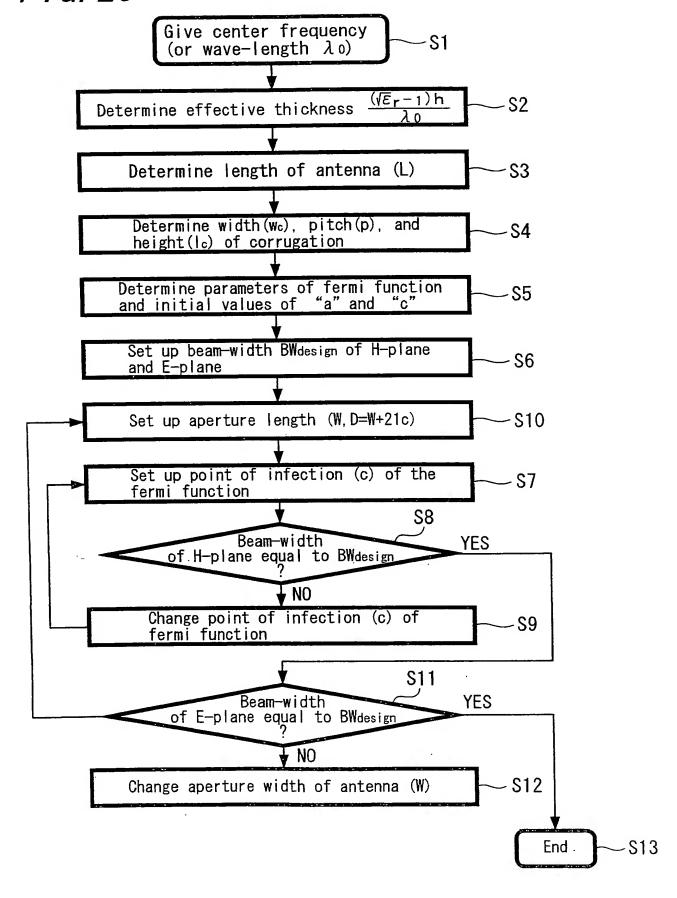
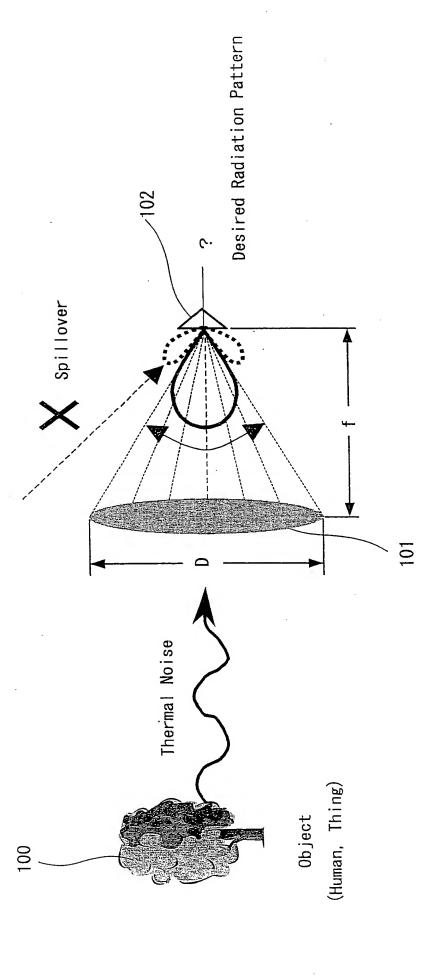


FIG. 20



F16.21



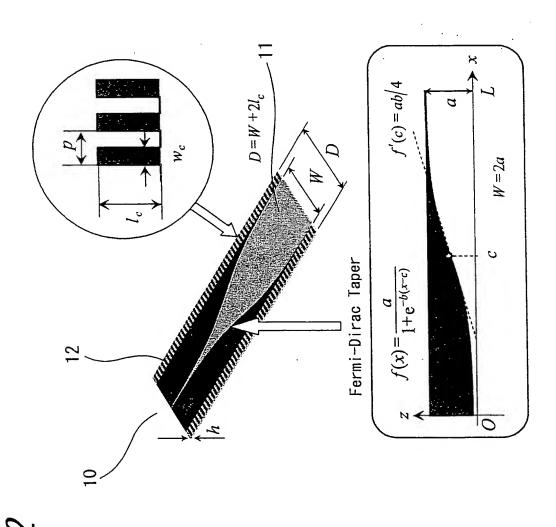


FIG. 23

| Name of Measures | [mm] | [λ ₀]@35GHz |
|---|--------|-------------------------|
| Length of Antenna $oldsymbol{L}$ | 34.28 | 4 |
| Aperture Width W | 7.8 | 0.91 |
| Distance d Between End of Substrate And End of Aperture d | 1.15 | 0.13 |
| Substrate Width D | 10.1 | 1.18 |
| Substrate Thickness h | 0.2 | 0.02 |
| Corrugation Length <i>lc</i> | 1.1 | 0.13 |
| Corrugation Width Wc | 0.3428 | 0.04 |
| Corrugation Pitch P | 0.6856 | 0.08 |
| Slot Line Width "s | 0.1 | 0.01 |